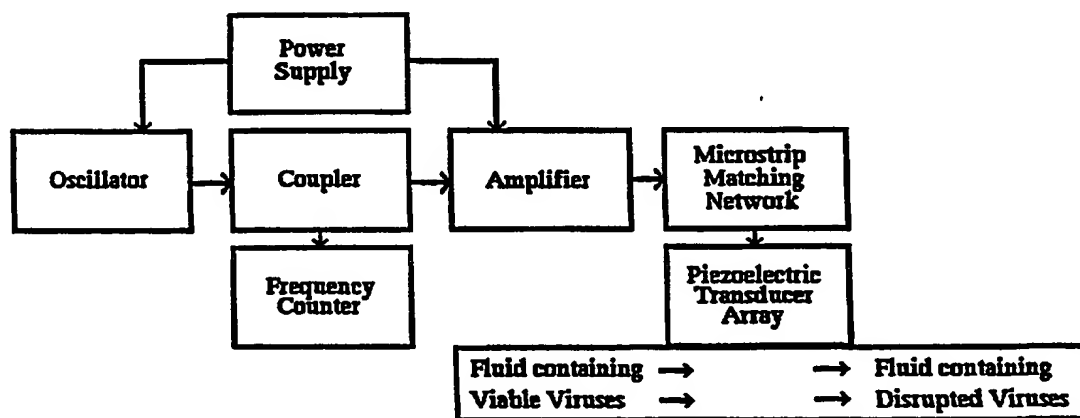




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(54) Title: METHODS FOR USING RESONANT ACOUSTIC AND/OR RESONANT ACOUSTO-EM ENERGY TO DETECT AND/OR EFFECT STRUCTURES



## (57) Abstract

The present invention makes use of resonant acoustic and/or acousto-EM energy applied to inorganic or biologic structures for the detection and/or identification, and for augmentation and/or disruption of function within the biologic structure. In particular, the invention provides a method of generating resonant acoustic and/or acousto-EM energy in biologic structures such as virus, bacteria, fungi, worms and tumors for the detection and disruption of these structures. Moreover, the invention provides a method of augmenting functions of biologic structures such as bone through the generation of resonant acoustic and/or acousto-EM energy in the structure. Systems are also provided for the generation and detection of resonant acoustic and/or resonant acousto-EM energy.

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